

What is claimed is:

1. A heat sink clip for attaching a heat sink to an electronic package that is mounted on a socket, the heat sink clip comprising:  
a main body comprising a longitudinal portion and two locking arms depending from the longitudinal portion, the longitudinal portion defining a through aperture therein, each of the locking arms having engaging means adapted to engage with the socket;  
a post extending through the through aperture of the main body, the post having a pressing portion at a bottom thereof, a resilient element being seated between the pressing portion and the longitudinal portion of the main body;  
and  
a handle pivotally connected to an upper portion of the post, the handle having a cam at one end abutting a top of the longitudinal portion; wherein  
when the handle is generally perpendicular to the longitudinal portion, the locking arms are at a lowest position, and when the handle is pivoted down to the longitudinal portion, the locking arms are in a highest position in which the clip can secure the heat sink to the electronic package.
2. The heat sink clip as described in claim 1, wherein opposite long side edges of the longitudinal portion are bent downwardly, for reinforcing the main body.
3. The heat sink clip as described in claim 1, wherein a cutout is defined in an upper portion of the post, for pivotally receiving a pivot portion of the cam.
4. The heat sink clip as described in claim 1, wherein a diameter of the pressing portion is greater than that of a main shaft of the post, and is also greater than that of the resilient element.
5. The heat sink clip as described in claim 4, wherein a diameter of the through

aperture is slightly greater than that of the main shaft of the post, and less than that of the resilient element.

6. The heat sink clip as described in claim 1, wherein the engaging means of each of the locking arms is a locking hole.
7. The heat sink clip as described in claim 1, wherein the resilient element is a coil spring.
8. A heat sink assembly comprising:
  - a heat sink;
  - a support module having first engaging means;
  - a clip adapted to attach the heat sink onto an electronic package, the clip comprising a main body, a post, a resilient element, and a handle, the main body comprising a longitudinal portion and two locking arms depending from the longitudinal portion, the longitudinal portion defining a through aperture, each of the locking arms defining second engaging means to engage with the first engaging means of the support module, the post extending through the through aperture of the longitudinal portion and having a top portion and a bottom portion respectively located at upper and lower sides of the longitudinal portion, wherein the resilient element is disposed around the post below the longitudinal portion, the handle has a cam end, and the cam end is pivotally connected to the top portion of the post.
9. The heat sink assembly as described in claim 8, wherein a reinforcing flange is formed from each of opposite long sides of the longitudinal portion.
10. The heat sink assembly as described in claim 8, wherein a cutout is defined in the top portion of the post, the cutout pivotally receiving a pivot portion of the

cam end of the handle.

11. The heat sink assembly as described in claim 8, wherein the bottom of the post has a pressing block, and the resilient element abuts the pressing block.
12. The heat sink assembly as described in claim 8, wherein the first and second engaging means respectively comprises catches and locking holes.
13. The heat sink assembly as described in claim 8, wherein the resilient element is a coil spring.
14. A heat sink assembly comprising:
  - a heat sink defining a slot;
  - a heat generating device which the heat sink is seated upon;
  - a module located under the heat generating device with locking devices thereon;
  - a clip including:
    - a longitudinal portion disposed in the slot with two opposite locking arms respectively located at two opposite ends and latchably engaged with the corresponding locking devices;
    - a post located on the longitudinal portion and vertically moveable relative thereto; and
    - a spring including a first section abutting against the longitudinal portion and a second section abutting against a lower end of the post; wherein said spring is in a first compression status with the lower end of the post downwardly pressing against the heat sink for securing the heat sink to the module, while is in a second compression status with the lower end of the post upwardly spaced from the heat sink for releasing the heat sink from the module, said second compression status being greater than said first compression status.

15. The assembly as described in claim 14, wherein said post is equipped with a camming handle to lift the post relative to the longitudinal portion by rotation.